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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/900,063A
Source: 1600
Date Processed by STIC: 6/12/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

RECEIVED
JUN 19 2003
TECH CENTER 1600/2



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003

TIME: 08:07:21

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

5 <110> APPLICANT: Rothschild, Max F.
7 Vincent, Amy L.
9 Tuggle, Christopher K.
13 <120> TITLE OF INVENTION: PROLACTIN RECEPTOR GENE AS A GENETIC MARKER FOR INCREASED
LITTER SIZE IN
14 ANIMALS
18 <130> FILE REFERENCE: P02285UD5
22 <140> CURRENT APPLICATION NUMBER: US 09/900,063A
24 <141> CURRENT FILING DATE: 2001-07-06
28 <150> PRIOR APPLICATION NUMBER: US 08/812,208
30 <151> PRIOR FILING DATE: 1997-03-06
34 <150> PRIOR APPLICATION NUMBER: US 08/742,805
36 <151> PRIOR FILING DATE: 1996-11-01
40 <150> PRIOR APPLICATION NUMBER: US 60/022,180
42 <151> PRIOR FILING DATE: 1996-07-19
46 <160> NUMBER OF SEQ ID NOS: 18
50 <170> SOFTWARE: PatentIn version 3.1
54 <210> SEQ ID NO: 1
56 <211> LENGTH: 20
58 <212> TYPE: DNA
60 <213> ORGANISM: Porcine
64 <400> SEQUENCE: 1
65 cccaaaacac caggagaacg 20
68 <210> SEQ ID NO: 2
70 <211> LENGTH: 20
72 <212> TYPE: DNA
74 <213> ORGANISM: Porcine
78 <400> SEQUENCE: 2
79 ggcagaatgg tgaaaaatgga 20
82 <210> SEQ ID NO: 3
84 <211> LENGTH: 492
86 <212> TYPE: DNA
88 <213> ORGANISM: Porcine
92 <220> FEATURE:
94 <221> NAME/KEY: allele
96 <222> LOCATION: (240)..(240)
98 <223> OTHER INFORMATION (G/A polymorphic site) per Sequence Rules, use "r"
102 <400> SEQUENCE: 3
103 aagtcaacaa agatggagca ctggcggtgc tccaaaaca gcaggagaac ggcgaccggc 60
105 cggagaaggc tggcgccct gaaaccagca aggaatacgc ccaggtgtcc cgggtatgg 120
107 ataaccacat cctgggtta gtgcaggatc cgcgagctcg aaacgtgct ccgtttaag 180
109 aaccaaccaa ggagaccccg ccatcccgcc cgcaagaatcc agctgcggaa gacctggc@ 240
111 gtttcaccac ggccccggc cactgcagac acccgctggg tgggtctggat tacctcgatc 300
113 ccgcaggctt tatgcactcc tttcagttag agcttggatc atggatgat gggtaaag 360

r = a or g

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003
TIME: 08:07:21

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

115 gtggggtttt tttcaggtcg cactacgtga aatgcactct accagagaaaa gctcgaaaaat 420
 117 ggggttagaa tgacactacc cagactcaca gttcactcct cttcatgctc catttcaac 480
 119 cacttgcctc tt 492
 122 <210> SEQ ID NO: 4
 124 <211> LENGTH: 20
 126 <212> TYPE: DNA
 128 <213> ORGANISM: Unknown
 132 <220> FEATURE:
 134 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 135 were used to design the degenerate primer
 137 <220> FEATURE:
 139 <221> NAME/KEY: misc_difference
 141 <222> LOCATION: (13)..(13)
 143 <223> OTHER INFORMATION: C/T *use "y" y=c or +*
 147 <400> SEQUENCE: 4
 148 tcacaaaggta aacaagatg 20
 151 <210> SEQ ID NO: 5
 153 <211> LENGTH: 20
 155 <212> TYPE: DNA
 157 <213> ORGANISM: Unknown
 161 <220> FEATURE:
 163 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 164 were used to design the degenerate primer
 166 <220> FEATURE:
 168 <221> NAME/KEY: misc_difference
 170 <222> LOCATION: (3)..(3)
 172 <223> OTHER INFORMATION: G/A *use "r"*
 176 <220> FEATURE:
 178 <221> NAME/KEY: misc_difference
 180 <222> LOCATION: (9)..(9)
 182 <223> OTHER INFORMATION: G/A *use "r"*
 186 <220> FEATURE:
 188 <221> NAME/KEY: misc_difference
 190 <222> LOCATION: (16)..(16)
 192 <223> OTHER INFORMATION: G/A *use "r"*
 196 <400> SEQUENCE: 5
 197 tggagaaaaga ggcaagtgg 20
 200 <210> SEQ ID NO: 6
 202 <211> LENGTH: 20
 204 <212> TYPE: DNA
 206 <213> ORGANISM: Porcine
 210 <400> SEQUENCE: 6
 211 cggccgcaga atcctgctgc 20
 214 <210> SEQ ID NO: 7
 216 <211> LENGTH: 24
 218 <212> TYPE: DNA
 220 <213> ORGANISM: Porcine
 224 <400> SEQUENCE: 7
 225 accccacacctt gtaacccatc atcc 24

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003
TIME: 08:07:21

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

228 <210> SEQ ID NO: 8	
230 <211> LENGTH: 18	
232 <212> TYPE: DNA	
234 <213> ORGANISM: Porcine	
238 <400> SEQUENCE: 8	
239 caagggtggga acatgagt	18
242 <210> SEQ ID NO: 9	
244 <211> LENGTH: 20	
246 <212> TYPE: DNA	
248 <213> ORGANISM: Porcine	
252 <400> SEQUENCE: 9	
253 aatcctttta tttttggccc	20
256 <210> SEQ ID NO: 10	
258 <211> LENGTH: 20	
260 <212> TYPE: DNA	
262 <213> ORGANISM: Porcine	
266 <400> SEQUENCE: 10	
267 gattattgtc tgggcagtgg	20
270 <210> SEQ ID NO: 11	
272 <211> LENGTH: 20	
274 <212> TYPE: DNA	
276 <213> ORGANISM: Porcine	
280 <400> SEQUENCE: 11	
281 aatcctttta tttttggccc	20
284 <210> SEQ ID NO: 12	
286 <211> LENGTH: 20	
288 <212> TYPE: DNA	
290 <213> ORGANISM: Porcine	
294 <400> SEQUENCE: 12	
295 gattattgtc tgggcagtgg	20
298 <210> SEQ ID NO: 13	
300 <211> LENGTH: 23	
302 <212> TYPE: DNA	
304 <213> ORGANISM: Porcine	
308 <400> SEQUENCE: 13	
309 ctatttcaca aaaactgcgc tac	23
312 <210> SEQ ID NO: 14	
314 <211> LENGTH: 566	
316 <212> TYPE: DNA	
318 <213> ORGANISM: Porcine	
322 <220> FEATURE:	
324 <221> NAME/KEY: misc_feature	
326 <222> LOCATION: (36)..(36)	
328 <223> OTHER INFORMATION: n = unknown at amino acid position 36	
332 <400> SEQUENCE: 14	
W--> 333 gattattgtc tgggcagtgg tcttctctgt ctatcnaccc ccctcccat cattggctctc	60
335 agggtataat ggccaaaaaa aagacaagac aaaaatgtat gaaacctaca gataattyaa	120
337 gcacctcatt ttgccattag ctgcattagc cataaaaaaa aaaaaaaaaa ccttttctca	180
339 gtgctagaaa aaaacagaat agactcattt gaaactgtatc ttctctctac caaaggag	240

? This is a nucleotide sequence

RAW SEQUENCE LISTING
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DATE: 06/12/2003
TIME: 08:07:21

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

341 agcgcagttg taaaaatgtt aacgtctgac aagaacagca aataatccca ctagtaattt 300
 343 cagaatccgc ctccctcaatt agccagaatt cactgtgatg ctggcctcta taatttattat 360
 345 ttgtcttcac cactgatttag tttcacatca taaaaattgc atgtcattta gttcacrtta 420
 347 gcctcagaac caaccctaattt ccctacctgc catatccctg tagcagctat tcgaagatca 480
 349 caaggtggaa acatgtgtt tttatctttt ctcttacattt attttagagc atgttggcct 540
 351 gcatccggc caaaaataaa aggatt 566
 354 <210> SEQ ID NO: 15
 356 <211> LENGTH: 518
 358 <212> TYPE: DNA
 360 <213> ORGANISM: Porcine
 364 <220> FEATURE:
 366 <221> NAME/KEY: misc_feature
 368 <222> LOCATION: (49)..(49)
 370 <223> OTHER INFORMATION: n = unknown in amino acid position 49
 374 <220> FEATURE:
 376 <221> NAME/KEY: misc_feature
 378 <222> LOCATION: (67)..(67)
 380 <223> OTHER INFORMATION: n = unknown in amino acid position 67
 384 <400> SEQUENCE: 15

This is a nucleotide sequence

W--> 385 gtacacacac acacacacac acacacaccac gtttaagctnt ctttctgaat 60
 387 catgcnnacc cgaggccac ccatacgagga gtgtgggtga ggggccttg gcacttctga 120
 389 gcccctgcattt cctacaccca cttagcctcaa gatgtcatcc ctggccctggc ccccacccat 180
 391 ctgtttctgtt caccacgaga atggtccagt cattgagccgg accttcataat tgactccagt 240
 393 ggtttctgtt tttttcttagg acagtccactt ccggggaaaac ctgagatctt caaatgtcgt 300
 395 tctcccgaaa aggaaacattt cgcctgctgg tggaaagccgg gggcgatgg aggacttcct 360
 397 accaactaga cgctgactta ccacaaggaa gggtaagcat tcgcgtgtct cccaaacaaac 420
 399 cacacgatgtt ttctctctctt gtggggccaga ggaacactgc ttctgggtt gaactgcctc 480
 401 gctttggagt tccctgtatg gctcagtggt aacgaatc 518
 404 <210> SEQ ID NO: 16
 406 <211> LENGTH: 133
 408 <212> TYPE: DNA
 410 <213> ORGANISM: Homo sapiens
 414 <400> SEQUENCE: 16
 415 gacagttacc tcctggaaaa cctgagatct ttaaatgtcg ttctcccaat aaggaaacat 60
 417 tcacactgctg gtggaggcct gggacagatg gaggacttcc taccaattat tcactgactt 120
 419 accacagggagg 133
 422 <210> SEQ ID NO: 17
 424 <211> LENGTH: 53
 426 <212> TYPE: PRT
 428 <213> ORGANISM: Homo sapiens
 432 <400> SEQUENCE: 17
 434 Gly Gln Leu Pro Pro Gly Lys Pro Glu Ile Phe Lys Ser Pro Phe Cys
 435 1 5 10 15
 438 Arg Ser Pro Asn Lys Glu Thr Phe Thr Glu Ala Arg Pro Gly Thr Asp
 439 20 25 30
 442 Gly Gly Leu Pro Thr Asn Lys Pro Ala Asn Tyr Ser Leu Thr Tyr His
 443 35 40 45
 446 Arg Glu Gly Thr Lys
 447 50

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003

TIME: 08:07:21

Input Set : A:\EP.txt

Output Set: N:\CRF4\06122003\I900063A.raw

450 <210> SEQ ID NO: 18

452 <211> LENGTH: 132

454 <212> TYPE: DNA

456 <213> ORGANISM: Porcine

460 <400> SEQUENCE: 18

461 acagtcacct ccggaaaaac ctgagatctt caaatgtcgt tctcccgaaa aggaaacatt

60

463 cgcctgctgg tggaaaggccgg gggcggatgg aggacttctt accaactaga cgctgactta

120

465 ccacaaggaa gg

132

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003
TIME: 08:07:22

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; N Pos. 36
Seq#:15; N Pos. 49, 67

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 13

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/900,063A**

DATE: 06/12/2003

TIME: 08:07:22

Input Set : **A:\EP.txt**

Output Set: **N:\CRF4\06122003\I900063A.raw**

L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15

STATISTICS SUMMARY
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003
TIME: 08:07:22

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

Application Serial Number: US/09/900,063A
Alpha or Numeric or Xml: Numeric
Application Class:
Application File Date: 07-06-2001
Art Unit: 1600
Software Application: PatentIN3.1
Total Number of Sequences: 18
Total Nucleotides: 2086
Total Amino Acids: 53
Number of Errors: 0
Number of Warnings: 3
Number of Corrections: 0

MESSAGE SUMMARY

341 W: 3 ((46) "n" or "Xaa" used)